

Map Unit Description (MN)

Mower County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

2A--Ostrander loam, 0 to 2 percent slopes

Ostrander

Extent: 80 to 100 percent of the unit

Landform(s): flats on till plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 16 in	loam	moderate	3.23 to 3.87 in	5.6 to 7.3
Bw --	16 to 20 in	silt loam	moderate	0.67 to 0.79 in	5.1 to 7.3
2Bw,2BC --	20 to 50 in	sandy clay loam	moderate	5.09 to 5.69 in	5.1 to 7.3
3C --	50 to 60 in	loam	moderate	1.67 to 1.87 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

2B--Ostrander loam, 2 to 6 percent slopes

Ostrander

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 16 in	loam		moderate	3.23 to 3.87 in	5.6 to 7.3
Bw --	16 to 20 in	silt loam		moderate	0.67 to 0.79 in	5.1 to 7.3
2Bw,2BC --	20 to 50 in	sandy clay loam		moderate	5.09 to 5.69 in	5.1 to 7.3
3C --	50 to 60 in	loam		moderate	1.67 to 1.87 in	6.6 to 7.8

Map Unit Description (MN)

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23--Skyberg silt loam

Skyberg

Extent: 70 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 3 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
E,Btg --	8 to 21 in	silty clay loam		moderate	2.34 to 2.60 in	4.5 to 5.5
2Btg,2Bt --	21 to 50 in	loam		moderately slow	4.08 to 5.54 in	5.1 to 7.3
2C --	50 to 60 in	loam		moderately slow	0.89 to 1.28 in	7.4 to 7.8

24B--Kasson silt loam, 1 to 4 percent slopes

Kasson

Extent: 80 to 90 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 4 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam		moderate	1.56 to 1.70 in	5.6 to 6.5
E,Bt --	7 to 16 in	silty clay loam		moderate	1.63 to 1.99 in	4.5 to 6.0
2Bt,2C --	16 to 60 in	loam		moderately slow	6.56 to 8.30 in	5.1 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

27A--Dickinson fine sandy loam, 0 to 2 percent slopes

Dickinson

Extent: 80 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in	fine sandy loam	moderately rapid	1.94 to 2.42 in	5.6 to 7.3
Bw --	16 to 30 in	fine sandy loam	moderately rapid	1.65 to 2.07 in	5.1 to 6.5
BC --	30 to 40 in	loamy sand	rapid	0.82 to 1.02 in	5.1 to 6.5
C --	40 to 60 in	sand	rapid	0.39 to 0.79 in	5.6 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

27B--Dickinson fine sandy loam, 2 to 6 percent slopes

Dickinson

Extent: 85 to 95 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in	fine sandy loam	moderately rapid	1.94 to 2.42 in	5.6 to 7.3
Bw --	16 to 30 in	fine sandy loam	moderately rapid	1.65 to 2.07 in	5.1 to 6.5
BC --	30 to 40 in	loamy sand	rapid	0.82 to 1.02 in	5.1 to 6.5
C --	40 to 60 in	sand	rapid	0.39 to 0.79 in	5.6 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

30B--Kenyon silt loam, 1 to 6 percent slopes

Kenyon

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 6 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.81 to 1.99 in	5.1 to 7.3
A --	9 to 14 in	silt loam		moderate	1.02 to 1.13 in	5.1 to 7.3
AB --	14 to 19 in	silt loam		moderate	0.94 to 1.04 in	5.1 to 7.3
2Bw1 --	19 to 41 in	loam		moderate	3.75 to 4.19 in	5.1 to 7.3
2Bw2 --	41 to 55 in	loam		moderate	2.41 to 2.69 in	5.1 to 7.3
2BC1 --	55 to 71 in	loam		moderate	2.68 to 2.99 in	6.1 to 8.4
2BC2 --	71 to 79 in	loam		moderate	1.34 to 1.50 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

44--Ankeny fine sandy loam

Ankeny, occasionally flooded

Extent: 70 to 100 percent of the unit

Landform(s): flood plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 30 in	fine sandy loam	moderately rapid	4.79 to 5.39 in	6.1 to 7.3
Bw --	30 to 54 in	fine sandy loam	moderately rapid	3.60 to 4.08 in	6.1 to 7.3
C --	54 to 60 in	fine sandy loam	rapid	0.71 to 0.83 in	6.1 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

79B--Billett fine sandy loam, 2 to 6 percent slopes

Billett

Extent: 75 to 95 percent of the unit

Landform(s): stream terraces, outwash plains

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated 3s

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	fine sandy loam	moderately rapid	0.99 to 1.13 in	4.5 to 7.8
E,Bt --	7 to 24 in	sandy loam	moderately rapid	1.69 to 2.88 in	4.5 to 7.3
BC --	24 to 36 in	loamy fine sand	moderately rapid	0.83 to 1.65 in	5.1 to 7.3
C --	36 to 60 in	sand	rapid	0.72 to 2.40 in	5.1 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

83--Maxcreek silty clay loam, swales

Maxcreek, swales

Extent: 75 to 95 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 1 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 22 in	silty clay loam	moderate	3.97 to 4.85 in	6.1 to 7.3
Bg --	22 to 30 in	silt loam	moderate	1.57 to 1.73 in	6.1 to 7.3
2Bg --	30 to 39 in	loam	moderate	1.54 to 1.72 in	6.6 to 7.8
2Cg --	39 to 60 in	loam	moderate	3.55 to 3.96 in	7.4 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

88--Clyde silty clay loam

Clyde

Extent: 70 to 90 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silty clay loam	moderately slow	1.65 to 1.81 in	6.1 to 7.3
A --	8 to 17 in	silty clay loam	moderately slow	1.90 to 2.08 in	6.1 to 7.3
AB --	17 to 23 in	silty clay loam	moderately slow	1.24 to 1.36 in	6.1 to 7.3
Bg1 --	23 to 28 in	clay loam	moderately slow	0.92 to 1.02 in	6.1 to 7.3
Bg2 --	28 to 41 in	silty clay loam	moderately slow	2.34 to 2.60 in	6.1 to 7.3
Bg3 --	41 to 44 in	sandy loam	moderately rapid	0.35 to 0.41 in	6.1 to 7.3
2BCg --	44 to 62 in	loam	moderate	3.01 to 3.37 in	6.1 to 8.4
2BC --	62 to 79 in	loam	moderate	2.88 to 3.22 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

99A--Racine silt loam, 0 to 2 percent slopes

Racine

Extent: 80 to 100 percent of the unit

Landform(s): flats on till plains

Slope gradient: 0 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.1 to 7.3
E,Bt --	8 to 20 in	silt loam		moderate	2.44 to 2.69 in	4.5 to 6.0
2Bt,2BC --	20 to 45 in	loam		moderate	3.72 to 4.71 in	4.5 to 6.0
2C --	45 to 60 in	loam		moderate	1.50 to 2.24 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

99B--Racine silt loam, 2 to 6 percent slopes

Racine

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 2 to 6 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 7.3
E,Bt --	13 to 20 in	silt loam	moderate	1.42 to 1.56 in	4.5 to 6.0
2Bt,2BC --	20 to 45 in	loam	moderate	3.72 to 4.71 in	4.5 to 6.0
2C --	45 to 60 in	loam	moderate	1.50 to 2.24 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

99C--Racine silt loam, 6 to 12 percent slopes

Racine

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 6 to 12 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 13 in	silt loam		moderate	2.86 to 3.12 in	5.1 to 7.3
E,Bt --	13 to 20 in	silt loam		moderate	1.42 to 1.56 in	4.5 to 6.0
2Bt,2BC --	20 to 45 in	loam		moderate	3.72 to 4.71 in	4.5 to 6.0
2C --	45 to 60 in	loam		moderate	1.50 to 2.24 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

129--Cylinder loam

Cylinder

Extent: 70 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .17

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in	loam	moderate	3.23 to 3.55 in	5.6 to 7.3
Bw,BC --	16 to 31 in	loam	moderate	2.54 to 2.84 in	6.1 to 7.3
2C --	31 to 60 in	gravelly sand	very rapid	0.57 to 1.15 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

135--Donnan silt loam

Donnan

Extent: 70 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.57 to 1.73 in	5.6 to 7.3
E --	8 to 13 in	silt loam		moderate	1.02 to 1.13 in	5.1 to 6.5
EB --	13 to 18 in	silt loam		moderate	1.02 to 1.13 in	5.1 to 6.5
Bt --	18 to 24 in	clay loam		moderately slow	1.00 to 1.12 in	5.1 to 6.5
2Btg1 --	24 to 34 in	silty clay		very slow	1.08 to 1.38 in	5.1 to 6.5
2Btg2 --	34 to 48 in	silty clay		very slow	1.56 to 1.98 in	5.1 to 6.5
2BC1 --	48 to 57 in	loam		moderate	1.54 to 1.72 in	6.1 to 8.4
2BC2 --	57 to 60 in	loam		moderate	0.47 to 0.52 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

156A--Fairhaven silt loam, 0 to 2 percent slopes

Fairhaven

Extent: 70 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
Bw --	15 to 30 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
2BC,2C --	30 to 60 in	stratified gravelly coarse sand to sand	rapid	0.60 to 1.20 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

156B--Fairhaven silt loam, 2 to 6 percent slopes

Fairhaven

Extent: 70 to 100 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
Bw --	15 to 30 in	loam	moderate	2.99 to 3.29 in	5.6 to 7.3
2BC,2C --	30 to 60 in	stratified gravelly coarse sand to sand	rapid	0.60 to 1.20 in	6.1 to 8.4

Map Unit Description (MN)

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190--Hayfield loam

Hayfield

Extent: 80 to 90 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 1 to 3 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.89 in	5.6 to 6.5
E --	8 to 13 in	loam		moderate	0.97 to 1.18 in	5.6 to 6.5
Bt --	13 to 29 in	loam		moderate	2.74 to 3.55 in	5.1 to 6.0
2C --	29 to 60 in	coarse sand		very rapid	0.61 to 1.23 in	5.6 to 7.8

228B--Mottland loam, 2 to 6 percent slopes

Mottland

Extent: 75 to 95 percent of the unit

Landform(s): upland slopes

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .20

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 7 in	loam		moderate	1.13 to 1.28 in	6.6 to 8.4
Bw,C --	7 to 60 in	channery sandy loam		moderately rapid	4.22 to 5.28 in	7.9 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

228C--Mottland loam, 6 to 12 percent slopes

Mottland

Extent: 80 to 90 percent of the unit

Landform(s): upland slopes

Slope gradient: 6 to 12 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .20

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
A --	0 to 7 in	loam		moderate	1.13 to 1.28 in	6.6 to 8.4
Bw,C --	7 to 60 in	channery sandy loam		moderately rapid	4.22 to 5.28 in	7.9 to 8.4

244A--Lilah sandy loam, 0 to 2 percent slopes

Lilah

Extent: 70 to 100 percent of the unit

Landform(s): flats on terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 8 in	sandy loam		moderately rapid	0.87 to 1.02 in	5.1 to 7.3
Bt --	8 to 16 in	sandy loam		moderately rapid	0.83 to 0.99 in	4.5 to 6.0
2Bt --	16 to 36 in	gravelly loamy sand		very rapid	0.39 to 0.79 in	4.5 to 6.0
2C --	36 to 60 in	gravelly coarse sand		very rapid	0.48 to 0.96 in	4.5 to 6.0

Map Unit Description (MN)

Mower County, Minnesota

244B--Lilah sandy loam, 2 to 6 percent slopes

Lilah

Extent: 80 to 90 percent of the unit

Landform(s): terraces

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 4s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	sandy loam		moderately rapid	0.87 to 1.02 in	5.1 to 7.3
Bt --	8 to 16 in	sandy loam		moderately rapid	0.83 to 0.99 in	4.5 to 6.0
2Bt --	16 to 36 in	gravelly loamy sand		very rapid	0.39 to 0.79 in	4.5 to 6.0
2C --	36 to 60 in	gravelly coarse sand		very rapid	0.48 to 0.96 in	4.5 to 6.0

Map Unit Description (MN)

Mower County, Minnesota

244C--Lilah sandy loam, 6 to 12 percent slopes

Lilah

Extent: 80 to 90 percent of the unit

Landform(s): terraces

Slope gradient: 6 to 12 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: excessively drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 3

Wind erodibility index (WEI): 86

Kw factor (surface layer) .15

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: low

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	sandy loam		moderately rapid	0.87 to 1.02 in	5.1 to 7.3
Bt --	8 to 16 in	sandy loam		moderately rapid	0.83 to 0.99 in	4.5 to 6.0
2Bt --	16 to 36 in	gravelly loamy sand		very rapid	0.39 to 0.79 in	4.5 to 6.0
2C --	36 to 60 in	gravelly coarse sand		very rapid	0.48 to 0.96 in	4.5 to 6.0

Map Unit Description (MN)

Mower County, Minnesota

252--Marshan clay loam

Marshan

Extent: 80 to 100 percent of the unit

Landform(s): drainageways on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 14 in	clay loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bg --	14 to 26 in	clay loam	moderate	2.01 to 2.60 in	5.6 to 7.3
BCg --	26 to 29 in	sandy loam	moderate	0.47 to 0.60 in	5.6 to 7.3
2Cg,2C --	29 to 60 in	gravelly coarse sand	rapid	0.61 to 1.54 in	6.1 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

253--Maxcreek silty clay loam

Maxcreek

Extent: 70 to 100 percent of the unit

Landform(s): drainageways on moraines

Slope gradient: 0 to 1 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 18 in	silty clay loam	moderate	3.26 to 3.98 in	6.1 to 7.3
Bg --	18 to 28 in	silt loam	moderate	1.97 to 2.17 in	6.1 to 7.3
2Bg --	28 to 35 in	loam	moderate	1.20 to 1.35 in	6.6 to 7.8
2Cg --	35 to 60 in	loam	moderate	4.22 to 4.71 in	7.4 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

255--Mayer loam

Mayer

Extent: 80 to 100 percent of the unit

Landform(s): drainageways on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 20 in	loam		moderate	4.02 to 4.42 in	7.4 to 8.4
Bg,BC --	20 to 36 in	sandy loam		moderate	2.52 to 2.99 in	7.4 to 8.4
2C --	36 to 60 in	gravelly coarse sand		rapid	0.48 to 0.96 in	7.4 to 8.4

295--Readlyn silt loam

Readlyn

Extent: 80 to 90 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 17 in	silt loam		moderate	3.39 to 3.72 in	5.1 to 7.3
Bw,2Bw --	17 to 47 in	loam		moderate	5.09 to 5.69 in	5.1 to 6.5
2C --	47 to 60 in	loam		moderate	2.21 to 2.47 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

307--Sargeant silt loam

Sargeant

Extent: 70 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.1 to 6.5
E,E/B --	8 to 22 in	silt loam		moderate	2.83 to 3.40 in	4.5 to 6.5
2B/E,2Bt --	22 to 45 in	loam		slow	2.28 to 3.43 in	4.5 to 6.5
2C --	45 to 60 in	loam		slow	1.20 to 2.09 in	6.1 to 7.8

313--Spillville loam, occasionally flooded

Spillville, occasionally flooded

Extent: 80 to 100 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .17

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 52 in	loam		moderate	9.87 to 10.91 in	5.6 to 7.3
C --	52 to 60 in	sandy loam		moderately rapid	1.18 to 1.42 in	5.6 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

331--Tripoli silty clay loam

Tripoli

Extent: 80 to 90 percent of the unit

Landform(s): flats on till plains

Slope gradient: 0 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in		silty clay loam	moderate	3.07 to 3.39 in	6.1 to 7.3
Bg,2Bg --	16 to 47 in		loam	moderate	5.22 to 5.83 in	6.6 to 7.8
2C --	47 to 60 in		loam	moderate	2.21 to 2.47 in	7.4 to 8.4

334B--Vlasaty silt loam, 1 to 4 percent slopes

Vlasaty

Extent: 75 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 4 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in		silt loam	moderate	1.56 to 1.70 in	6.1 to 6.5
E,B/E --	7 to 16 in		silty clay loam	moderate	1.99 to 2.17 in	5.1 to 6.0
2Bt --	16 to 50 in		clay loam	moderately slow	3.39 to 5.08 in	5.1 to 6.5
2C --	50 to 60 in		loam	moderately slow	0.79 to 1.38 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

376B--Moland silt loam, 1 to 6 percent slopes

Moland

Extent: 75 to 95 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 6 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	silt loam	moderate	3.12 to 3.40 in	5.6 to 7.3
Bw -- 14 to 19 in	loam	moderate	0.94 to 1.04 in	5.6 to 6.5
2Bw -- 19 to 45 in	loam	moderate	4.42 to 4.94 in	5.6 to 7.3
2C -- 45 to 60 in	loam	moderate	2.54 to 2.84 in	6.6 to 7.8

377--Merton silt loam

Merton

Extent: 70 to 100 percent of the unit

Landform(s): flats on moraines

Slope gradient: 1 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bw -- 16 to 23 in	silt loam	moderate	1.34 to 1.47 in	5.6 to 7.3
2Bw,2C -- 23 to 60 in	loam	moderate	6.29 to 7.03 in	5.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

380--Havana silt loam

Havana

Extent: 75 to 95 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
E,Btg --	8 to 22 in	silty clay loam		moderately slow	2.13 to 2.69 in	5.6 to 6.5
2Btg,2BCg --	22 to 40 in	loam		moderately slow	3.08 to 3.44 in	5.1 to 7.3
2C --	40 to 60 in	loam		moderate	3.35 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

381--Newry silt loam

Newry

Extent: 75 to 95 percent of the unit

Landform(s): moraines

Slope gradient: 1 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.70 to 2.13 in	5.6 to 6.5
E,Bt --	7 to 18 in	silty clay loam	moderate	1.98 to 2.31 in	5.1 to 6.5
2Bt --	18 to 42 in	loam	moderate	4.08 to 4.56 in	5.6 to 7.3
2C --	42 to 60 in	loam	moderate	3.01 to 3.37 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

382B--Blooming silt loam, 2 to 6 percent slopes

Blooming

Extent: 80 to 100 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.89 to 2.36 in	5.6 to 6.5
BE,Bt --	8 to 21 in	silty clay loam		moderate	2.34 to 2.86 in	5.6 to 6.5
2Bt --	21 to 45 in	loam		moderate	3.84 to 4.56 in	5.1 to 7.3
2C --	45 to 60 in	loam		moderate	2.54 to 2.84 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

382C--Blooming silt loam, 6 to 15 percent slopes

Blooming

Extent: 80 to 100 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 15 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.89 to 2.36 in	5.6 to 6.5
BE,Bt --	8 to 21 in	silty clay loam		moderate	2.34 to 2.86 in	5.6 to 6.5
2Bt --	21 to 45 in	loam		moderate	3.84 to 4.56 in	5.1 to 7.3
2C --	45 to 60 in	loam		moderate	2.54 to 2.84 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

393--Udolpho silt loam

Udolpho

Extent: 80 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam	moderate	1.57 to 1.89 in	5.6 to 7.3
E,Bt --	8 to 21 in	loam	moderate	2.08 to 2.86 in	5.1 to 6.5
Btg --	21 to 27 in	loam	moderate	0.94 to 1.30 in	5.1 to 6.5
2Cg --	27 to 60 in	gravelly coarse sand	rapid	0.66 to 2.65 in	5.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

444--Canisteo silty clay loam

Canisteo

Extent: 70 to 100 percent of the unit

Landform(s): flats on moraines

Slope gradient: 0 to 2 percent

Parent material: loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 22 in	silty clay loam	moderate	3.97 to 4.85 in	7.4 to 8.4
Bg --	22 to 27 in	silty clay loam	moderate	0.71 to 0.90 in	7.4 to 8.4
2Bg --	27 to 36 in	loam	moderate	1.09 to 1.63 in	7.4 to 8.4
2Cg --	36 to 60 in	loam	moderate	3.36 to 3.84 in	7.4 to 8.4

465--Kalmarville loam, frequently flooded

Kalmarville, frequently flooded

Extent: 80 to 100 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 1 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	loam	moderate	1.97 to 2.36 in	6.6 to 7.8
A --	10 to 50 in	stratified sandy loam to fine sandy loam to silt loam	moderately rapid	5.22 to 7.23 in	6.6 to 7.8
C --	50 to 60 in	stratified sand to loamy fine sand	rapid	0.59 to 0.89 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

467--Sawmill silty clay loam

Sawmill, frequently flooded

Extent: 80 to 100 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 29 in	silty clay loam		moderate	6.12 to 6.70 in	6.1 to 7.8
Bg --	29 to 36 in	silty clay loam		moderate	1.41 to 1.54 in	6.1 to 7.8
Cg --	36 to 60 in	silty clay loam		moderate	3.60 to 4.56 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

479--Floyd silt loam

Floyd

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.57 to 1.73 in	6.1 to 7.3
A --	8 to 24 in	loam		moderate	3.15 to 3.46 in	6.1 to 7.3
Bw1 --	24 to 33 in	sandy clay loam		moderate	1.51 to 1.70 in	6.1 to 7.3
Bw2 --	33 to 41 in	sandy loam		moderately rapid	0.87 to 1.02 in	6.6 to 7.3
2Bw3 --	41 to 50 in	loam		moderate	1.45 to 1.63 in	6.6 to 8.4
2BC --	50 to 80 in	loam		moderate	4.79 to 5.39 in	6.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

483A--Waukee loam, 0 to 2 percent slopes

Waukee

Extent: 70 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	loam	moderate	3.23 to 3.55 in	5.1 to 7.3
Bt -- 16 to 27 in	loam	moderate	1.59 to 2.02 in	5.1 to 6.0
2BC,2C -- 27 to 60 in	gravelly sand	very rapid	0.66 to 1.98 in	5.6 to 6.5

483B--Waukee loam, 2 to 6 percent slopes

Waukee

Extent: 70 to 100 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	loam	moderate	3.23 to 3.55 in	5.1 to 7.3
Bt -- 16 to 27 in	loam	moderate	1.59 to 2.02 in	5.1 to 6.0
2BC,2C -- 27 to 60 in	gravelly sand	very rapid	0.66 to 1.98 in	5.6 to 6.5

Map Unit Description (MN)

Mower County, Minnesota

485--Lawler silt loam

Lawler

Extent: 70 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 14 in	silt loam		moderate	2.83 to 3.12 in	5.6 to 7.3
Bw --	14 to 29 in	loam		moderate	2.39 to 2.69 in	5.1 to 6.5
BC,2C --	29 to 60 in	gravelly coarse sand		very rapid	0.61 to 1.23 in	5.1 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

516A--Dowagiac loam, 0 to 2 percent slopes

Dowagiac

Extent: 70 to 100 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	loam	moderate	0.94 to 1.06 in	5.6 to 6.5
E, Bt1 --	6 to 25 in	clay loam	moderate	2.51 to 2.70 in	5.1 to 6.5
Bt2 --	25 to 30 in	sandy loam	moderately rapid	0.66 to 0.71 in	5.1 to 6.5
2C --	30 to 60 in	gravelly coarse sand	rapid	0.30 to 1.20 in	5.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

516B--Dowagiac loam, 2 to 6 percent slopes

Dowagiac

Extent: 70 to 100 percent of the unit

Landform(s): outwash plains, stream terraces

Slope gradient: 2 to 6 percent

Parent material: loamy glaciofluvial deposits over sandy outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	loam		moderate	0.94 to 1.06 in	5.6 to 6.5
E, Bt1 --	6 to 25 in	clay loam		moderate	2.51 to 2.70 in	5.1 to 6.5
Bt2 --	25 to 30 in	sandy loam		moderately rapid	0.66 to 0.71 in	5.1 to 6.5
2C --	30 to 60 in	gravelly coarse sand		rapid	0.30 to 1.20 in	5.6 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

517--Shandep clay loam

Shandep

Extent: 80 to 100 percent of the unit

Landform(s): depressions on outwash plains, stream terraces

Slope gradient: 0 to 1 percent

Parent material: loamy glaciofluvial deposits over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 29 in	clay loam	moderate	5.83 to 6.70 in	6.1 to 7.3
Bg --	29 to 36 in	loam	moderate	1.14 to 1.34 in	6.1 to 7.3
BCg --	36 to 42 in	sandy loam	moderately rapid	0.76 to 0.88 in	6.1 to 7.8
2Cg --	42 to 60 in	gravelly coarse sand	rapid	0.35 to 0.71 in	6.1 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

539--Palms muck

Palms

Extent: 70 to 100 percent of the unit

Landform(s): depressions on moraines

Slope gradient: 0 to 2 percent

Parent material: herbaceous organic material over loamy glaciofluvial deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oap -- 0 to 10 in	muck	moderately rapid	3.44 to 4.43 in	
Oa -- 10 to 32 in	muck	moderately rapid	7.72 to 9.92 in	
Cg -- 32 to 60 in	silty clay loam	moderate	3.91 to 6.15 in	

631--Oran silt loam, 1 to 4 percent slopes

Oran

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 4 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.42 to 1.57 in	5.1 to 7.3
E,B/E,2Bt -- 8 to 48 in	loam	moderate	6.83 to 7.63 in	4.5 to 6.5
2C -- 48 to 60 in	loam	moderate	2.01 to 2.24 in	7.4 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

632--Kensett variant silt loam

Kensett, variant

Extent: 80 to 100 percent of the unit

Landform(s): flats on upland slopes

Slope gradient: 0 to 3 percent

Parent material: loamy glaciofluvial deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	silt loam	moderate	2.73 to 2.99 in	6.1 to 7.3
Bw -- 13 to 24 in	clay loam	moderate	1.87 to 2.09 in	6.1 to 6.5
2C -- 24 to 60 in	channery silt loam	moderately rapid	3.58 to 6.81 in	7.4 to 8.4

633B--Nordness variant loam, 2 to 6 percent slopes

Nordness, variant

Extent: 90 to 100 percent of the unit

Landform(s): upland slopes

Slope gradient: 2 to 6 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: low

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	loam	moderate	1.42 to 1.56 in	5.6 to 7.3
Bt -- 7 to 18 in	clay loam	moderate	1.65 to 2.09 in	5.6 to 7.3
2C -- 18 to 60 in	channery silt loam	moderately rapid	4.17 to 6.26 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

634--Protivin silt loam

Protivin

Extent: 75 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A	--	0 to 13 in	silt loam	moderate	2.34 to 2.60 in	5.1 to 7.3
BA,2Bt	--	13 to 40 in	clay loam	moderately slow	4.62 to 5.16 in	5.1 to 6.5
2C	--	40 to 60 in	clay loam	moderately slow	2.95 to 3.35 in	5.6 to 7.8

635--Riceville silt loam

Riceville

Extent: 75 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap	--	0 to 7 in	silt loam	moderate	1.28 to 1.42 in	4.5 to 7.3
E,Bt	--	7 to 17 in	loam	moderately slow	1.67 to 1.87 in	4.5 to 6.0
2Bt	--	17 to 40 in	clay loam	moderately slow	1.16 to 2.32 in	4.5 to 7.8
2C	--	40 to 60 in	clay loam	moderately slow	0.98 to 1.97 in	4.5 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

637--Schley silt loam

Schley

Extent: 75 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 3 percent

Parent material: loamy glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2w

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.50 to 1.65 in	4.5 to 7.3
E,BE,Bt --	8 to 28 in	sandy loam		moderate	2.41 to 3.21 in	4.5 to 5.5
2Bt,2C --	28 to 60 in	sandy clay loam		moderate	5.10 to 5.74 in	5.1 to 7.8

638B--Taopi silt loam, 1 to 6 percent slopes

Taopi

Extent: 80 to 100 percent of the unit

Landform(s): upland slopes

Slope gradient: 1 to 6 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam		moderate	1.35 to 1.49 in	5.6 to 7.3
BE,Bt --	7 to 24 in	clay loam		moderate	2.88 to 3.22 in	5.1 to 6.5
2Bt --	24 to 30 in	clay		moderate	0.71 to 0.89 in	6.1 to 7.3
3C --	30 to 60 in	cobbly silt loam		moderately rapid	2.99 to 5.69 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

638C--Taopi silt loam, 6 to 12 percent slopes

Taopi

Extent: 80 to 100 percent of the unit

Landform(s): upland slopes

Slope gradient: 6 to 12 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap --	0 to 7 in	silt loam		moderate	1.35 to 1.49 in	5.6 to 7.3
BE,Bt --	7 to 24 in	clay loam		moderate	2.88 to 3.22 in	5.1 to 6.5
2Bt --	24 to 30 in	clay		moderate	0.71 to 0.89 in	6.1 to 7.3
3C --	30 to 60 in	cobbly silt loam		moderately rapid	2.99 to 5.69 in	7.4 to 8.4

699A--Rossfield silt loam, 0 to 2 percent slopes

Rossfield

Extent: 90 to 100 percent of the unit

Landform(s): flats on upland slopes

Slope gradient: 0 to 2 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:			Texture	Permeability	Available water capacity	pH
Ap,A --	0 to 15 in	silt loam		moderate	3.14 to 3.44 in	6.1 to 7.3
Bw --	15 to 29 in	loam		moderate	2.55 to 2.83 in	6.1 to 7.3
2C --	29 to 60 in	channery sandy loam		moderately rapid	3.07 to 3.69 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

699B--Rossfield silt loam, 2 to 6 percent slopes

Rossfield

Extent: 90 to 100 percent of the unit

Landform(s): upland slopes

Slope gradient: 2 to 6 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 15 in	silt loam	moderate	3.14 to 3.44 in	6.1 to 7.3
Bw -- 15 to 29 in	loam	moderate	2.55 to 2.83 in	6.1 to 7.3
2C -- 29 to 60 in	channery sandy loam	moderately rapid	3.07 to 3.69 in	7.4 to 8.4

1013--Pits, quarry

Pits, quarry

Extent: 100 percent of the unit

Landform(s): outwash plains, terraces

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Mower County, Minnesota

1030--Udorthents-Pits complex

Udorthents

Extent: 60 percent of the unit

Landform(s): outwash plains, terraces

Slope gradient: 0 to 30 percent

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated 6s

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

C -- 0 to 60 in loam

moderately rapid

4.79 to 8.38 in

6.6 to 9.0

Pits

Extent: 40 percent of the unit

Landform(s): outwash plains, terraces

Slope gradient:

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Mower County, Minnesota

1078--Udorthents, nearly level to sloping

Udorthents, nearly level to sloping

Extent: 100 percent of the unit

Landform(s): outwash plains, terraces

Slope gradient: 0 to 30 percent

Parent material: variable soil material

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated

Hydric soil: no

Hydrologic group: A

Potential for frost action: moderate

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

C -- 0 to 60 in loam

moderately rapid

4.79 to 8.38 in

6.6 to 9.0

1356--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Mower County, Minnesota

1812--Terril silt loam

Terril

Extent: 80 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 2 percent

Parent material: loamy colluvium

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A,AB --	0 to 23 in	silt loam		moderate	4.57 to 5.02 in	6.1 to 7.3
Bw,BC --	23 to 43 in	loam		moderate	3.21 to 3.61 in	6.1 to 7.3
2C --	43 to 60 in	coarse sand		rapid	0.85 to 1.19 in	6.1 to 8.4

1814B--Waucoma silt loam, 1 to 6 percent slopes

Waucoma

Extent: 70 to 100 percent of the unit

Landform(s): upland slopes

Slope gradient: 1 to 6 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam		moderate	1.35 to 1.49 in	5.6 to 7.3
E,Bt --	7 to 40 in	loam		moderate	5.62 to 6.28 in	5.6 to 6.5
2Bt --	40 to 45 in	clay loam		slow	0.57 to 0.71 in	6.6 to 7.3
3C --	45 to 60 in	channery silt loam		moderately rapid	1.50 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

1841--Hayfield loam, loamy substratum

Hayfield, loamy substratum

Extent: 70 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 2 percent

Parent material: loamy glaciofluvial deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 2s

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.89 in	5.6 to 6.5
E,Bt --	8 to 28 in	loam		moderate	3.41 to 4.42 in	5.1 to 6.0
2C --	28 to 52 in	gravelly coarse sand		rapid	0.48 to 0.96 in	5.6 to 7.8
3C --	52 to 60 in	loam		moderate	1.34 to 1.50 in	5.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

1844--Atkinson loam

Atkinson

Extent: 70 to 100 percent of the unit

Landform(s): flats on upland slopes

Slope gradient: 0 to 2 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 1

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 18 in	loam		moderate	3.62 to 3.98 in	5.6 to 7.3
Bt --	18 to 43 in	loam		moderate	4.22 to 4.71 in	5.1 to 6.0
2Bt --	43 to 45 in	clay		slow	0.24 to 0.30 in	6.6 to 7.3
3C --	45 to 60 in	channery silt loam		impermeable	1.50 to 2.84 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

1884--Stateline silt loam

Stateline

Extent: 75 to 95 percent of the unit

Landform(s): flats on till plains

Slope gradient: 0 to 2 percent

Parent material: silty glaciofluvial deposits over clayey glaciolacustrine deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 7 in	silt loam	moderate	1.42 to 1.70 in	5.6 to 7.3
E, BE -- 7 to 18 in	silty clay loam	moderate	1.87 to 2.09 in	4.5 to 6.0
2Btg -- 18 to 60 in	clay	impermeable	4.59 to 5.84 in	4.5 to 6.0

1891--Faxon variant silty clay loam

Faxon, variant

Extent: 80 to 100 percent of the unit

Landform(s): drainageways on upland slopes

Slope gradient: 0 to 2 percent

Parent material: loamy till over loamy residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A -- 0 to 14 in	silty clay loam	moderate	2.41 to 3.12 in	6.6 to 7.8
Bg -- 14 to 37 in	clay loam	moderate	2.74 to 4.34 in	6.6 to 7.8
2C -- 37 to 60 in	channery silt loam	moderately rapid	2.28 to 4.34 in	7.4 to 8.4

Map Unit Description (MN)

Mower County, Minnesota

1903--Udolpho silt loam, loamy substratum, swales

Udolpho, loamy substratum, swales

Extent: 80 to 100 percent of the unit

Landform(s): swales on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	silt loam		moderate	1.97 to 2.36 in	5.6 to 6.5
E --	10 to 14 in	silt loam		moderate	0.69 to 0.95 in	5.1 to 6.5
Btg --	14 to 30 in	loam		moderate	2.52 to 3.46 in	5.1 to 6.5
2Cg --	30 to 48 in	gravelly coarse sand		rapid	0.36 to 1.45 in	5.6 to 7.8
3C --	48 to 60 in	loam		moderate	1.65 to 2.13 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

1904--Udolpho silt loam, loamy substratum

Udolpho, loamy substratum

Extent: 80 to 100 percent of the unit

Landform(s): flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.57 to 1.89 in	5.6 to 6.5
E --	8 to 13 in	silt loam		moderate	0.82 to 1.13 in	5.1 to 6.5
Btg --	13 to 27 in	loam		moderate	2.20 to 3.03 in	5.1 to 6.5
2Cg --	27 to 51 in	gravelly coarse sand		rapid	0.49 to 1.95 in	5.6 to 7.8
3C --	51 to 60 in	loam		moderate	1.21 to 1.56 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

1905--Brownsdale silt loam

Brownsdale

Extent: 75 to 95 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: silty glaciofluvial deposits over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.81 to 2.17 in	5.6 to 7.3
E,Btg --	9 to 26 in	silty clay loam		moderate	2.88 to 3.22 in	4.5 to 6.5
2Btg --	26 to 48 in	loam		moderately slow	3.31 to 4.19 in	4.5 to 6.0
2Cg --	48 to 60 in	loam		moderately slow	0.94 to 1.54 in	6.6 to 7.8

Map Unit Description (MN)

Mower County, Minnesota

1974--Coland-Spillville loams, frequently flooded

Coland, frequently flooded

Extent: 40 to 60 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .17

Land capability, nonirrigated 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 10 in	loam		moderate	1.97 to 2.17 in	6.1 to 7.3
A,Bg,Cg --	10 to 60 in	silty clay loam		moderate	10.00 to 11.00 in	6.1 to 7.3

Spillville, frequently flooded

Extent: 20 to 40 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .17

Land capability, nonirrigated 5w

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 52 in	loam		moderate	9.87 to 10.91 in	5.6 to 7.3
C --	52 to 60 in	sandy loam		moderately rapid	1.18 to 1.42 in	5.6 to 7.3

Map Unit Description (MN)

Mower County, Minnesota

1992--Sargeant variant silt loam

Sargeant, variant

Extent: 80 to 90 percent of the unit

Landform(s): flats on upland slopes

Slope gradient: 0 to 2 percent

Parent material: loamy glaciofluvial deposits over clayey residuum

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated 3w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 9 in	silt loam	moderate	1.81 to 2.17 in	5.6 to 7.3
E,Bt -- 9 to 32 in	clay loam	moderate	3.88 to 4.34 in	4.5 to 6.0
2Bt,2C -- 32 to 60 in	clay	impermeable	1.40 to 2.52 in	5.6 to 7.3

W--Water

Water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Mower County, Minnesota

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.